



AIRCRAFT COMPANY, INC.

DMS 1504A
TENTATIVE

ISSUE OF 1-23-55

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DOUGLAS MATERIAL SPECIFICATION

TITLE: CLEANING AND STRIPPING SOLVENT
(Slow Evaporating)

1. ACKNOWLEDGMENT: A vendor shall mention this specification number in all quotations and when acknowledging purchase orders.
2. APPLICATION: For cleaning the metallic surfaces of fuel and oil tanks prior to sealing or resealing, and for spot stripping of organic finishes.
3. COMPOSITION: The solvent shall be a mixture composed of the following ingredients:

<u>Ingredient</u>	<u>% by vol.</u>	
	<u>Min.</u>	<u>Max.</u>
Acetone, (O-A-51)	9	10
Toluene, (TT-T-548)	13	14
Isopropyl Alcohol, (MIL-F-5566)	15	16
Xylene, (TT-X-916, Grade A)	8.0	9.0
Aromatic Petroleum Naphtha, (TT-N-97, Type II)	4.0	4.5
Diacetone Alcohol, (O-D-306)	5.0	5.5
Ethylene Glycol Monoethyl Ether, (TT-E-781)	5.0	5.5
Distilled Water	0.0	1.5
Methyl Ethyl Ketone, (TT-M-261)	Balance	

4. TECHNICAL REQUIREMENTS:

- 4.1 Clarity: The solvent mixture shall be clear and free from cloudiness and suspended matter.
- 4.2 Color: The solvent mixture shall be tinted a light green color to match an approved sample for identification purposes. (30 milligrams of Driegocine O-6-Pl Green Dye per gallon or equivalent may be used.)
- 4.3 Water: The solvent mixture shall contain not less than 1.5% nor more than 4.0% water when tested in accordance with the Karl Fischer Titration Method. Ref: Smith, Bryant & Mitchell, JACS 61, 2407 (1939).
- 4.4 Physical Properties: The solvent mixture shall have the following properties when tested using the latest ASTM methods:

<u>Property</u>	<u>Value</u>
Specific Gravity at 60/60°F	0.833 to 0.843
Index of Refraction at 25°C	1.4060 to 1.4120

5. REPORTS: Unless otherwise specified, vendor shall furnish with each shipment three copies of a report stating that the solvent conforms to the requirements of this specification and showing results of tests made to determine conformance to the physical properties specified herein. This report shall include the purchase order number, material specification number and quantity.
6. PACKAGING AND MARKING:
- 6.1 Unless otherwise specified, the solvent shall be packaged in 55 gallon metal drums with sealed openings. Interior surfaces of the metal drums shall be free from corrosion.
- 6.2 Each container shall be legibly marked to show this specification number, "Douglas No. 14 Stripper", vendor's identification, batch number, and net quantity.
- 6.3 When the point of delivery is in California, each container must be labeled in accordance with California General Industry Safety Orders, Group 9. Article 85. If the point of delivery is in any other State, the material shall be labeled in accordance with the existing safety regulations of that State.
7. REJECTIONS: Material not conforming to this specification or to authorized modifications will be subject to rejection.

DOUGLAS MATERIAL SPECIFICATION
QUALIFIED PRODUCTS LIST


MCDONNELL DOUGLAS
CORPORATION


DMS QPL 1504

ISSUE NO. 1

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CLEANING & STRIPPING SOLVENT; SLOW EVAPORATION

THE PRODUCTS OR SOURCES LISTED BELOW HAVE BEEN QUALIFIED UNDER THE REQUIREMENTS OF THIS DMS. THE LISTING OF A PRODUCT OR SOURCE DOES NOT RELEASE THE MANUFACTURER FROM COMPLIANCE WITH THE SPECIFICATION REQUIREMENTS.

CLASSIFICATION	MANUFACTURER'S DESIGNATION	MANUFACTURER'S NAME & ADDRESS	REMARKS
ANY SOURCE CAPABLE OF MEETING THIS SPECIFICATION ACCEPTABLE.			
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